

Attorney's Docket
01 P 7463 US

2

In the Claims

1. (Currently Amended) A system for call forwarding, comprising:
a telephone subsystem operable to communicate with a telephonic device;
a wireless subsystem operable to:
communicate with a mobile station, the mobile station associated with the telephonic device;
register the mobile station; and
a packet subsystem operable to transport packets and coupled to the telephone subsystem and the wireless subsystem, the packet subsystem further operable to:
determine that the mobile station has registered with the wireless subsystem;
and
~~instruct~~ provide an instruction to the telephone subsystem in response to determining that the mobile station has registered with the wireless subsystem;
the telephone system further operable to:
receive the instruction from the packet subsystem; and
in response to receiving the instruction, forward a telephone call directed at the telephonic device to the packet subsystem, the forwarding triggered by the mobile station registering with the wireless subsystem; and
the packet subsystem further operable to:
communicate the telephone call to the wireless subsystem for delivery to the mobile station;
determine that the mobile station has deregistered with the wireless subsystem;
and
provide a second instruction to the telephone subsystem in response to determining that the mobile station has deregistered with the wireless subsystem, the second instruction instructing the telephone system to forward a telephone call directed at the mobile station to the telephonic device, the forwarding triggered by the mobile station deregistering with the wireless subsystem.

Attorney's Docket
01 P 7463 US

3

2. (Original) The system of Claim 1, wherein the packet subsystem is operable to instruct the telephone subsystem to forward the telephone call by instructing the telephone subsystem to invoke at least one of a call forwarding feature, a call monitoring feature, a call deflection feature, and a remote call forwarding feature.

3. (Original) The system of Claim 2, wherein the packet subsystem is operable to instruct the telephone subsystem to invoke one or more of the features using at least one of a Computer Telephony Integration interface to the telephone subsystem, a signaling channel in a trunk interface to the telephone subsystem, a signaling channel in a line interface to the telephone subsystem, an administration port in the telephone subsystem, a teleworking server coupled to the telephone subsystem, and a telephone emulator coupled to the telephone subsystem.

4. (Canceled)

5. (Original) The system of Claim 1, wherein the packet subsystem comprises:
a wireless adjunct internet platform operable to communicate with at least one base station, the base station operable to communicate with the mobile station;
a gateway operable to communicate with the wireless adjunct internet platform and the telephone subsystem; and
a gatekeeper operable to generate signaling messages to control the telephone subsystem.

6. (Original) The system of Claim 1, wherein:
the telephone subsystem comprises a private branch exchange;
the wireless subsystem supports a Global System for Mobile communication (GSM) standard; and
the packet subsystem supports an International Telecommunications Union-Telecommunications (ITU-T) H.323 standard.

Attorney's Docket
01 P 7463 US

4

7. (Currently Amended) A method for call forwarding, comprising:

allowing a telephone subsystem to direct a first telephone call to a telephonic device when a mobile station is not registered, the mobile station associated with the telephonic device;

determining that the mobile station has registered with a wireless subsystem, the wireless subsystem coupled to the telephone subsystem by a packet subsystem operable to transport packets; and

~~instructing~~ providing an instruction to the telephone subsystem in response to determining that the mobile station has registered with the wireless subsystem, the telephone system further operable to receive the instruction from the packet subsystem, and, in response to receiving the instruction, forward a second telephone call directed at the telephonic device to the packet subsystem, the forwarding triggered by the mobile station registering with the wireless subsystem, the packet subsystem further operable to receive the second telephone call from the telephone subsystem and to communicate the second telephone call to the wireless subsystem for delivery to the mobile station;

determining that the mobile station has deregistered with the wireless subsystem; and

providing a second instruction to the telephone subsystem in response to determining that the mobile station has deregistered with the wireless subsystem, the second instruction instructing the telephone system to forward a telephone call directed at the mobile station to the telephonic device, the forwarding triggered by the mobile station deregistering with the wireless subsystem.

8. (Original) The method of Claim 7, wherein instructing the telephone subsystem to forward the second telephone call comprises instructing the telephone subsystem to invoke at least one of a call forwarding feature, a call monitoring feature, a call deflection feature, and a remote call forwarding feature.

Attorney's Docket
01 P 7463 US

5

9. (Original) The method of Claim 8, wherein instructing the telephone subsystem to invoke at least one of the features comprises instructing the telephone subsystem using at least one of a Computer Telephony Integration interface to the telephone subsystem, a signaling channel in a trunk interface to the telephone subsystem, a signaling channel in a line interface to the telephone subsystem, an administration port in the telephone subsystem, a teleworking server coupled to the telephone subsystem, and a telephone emulator coupled to the telephone subsystem.

10. (Canceled)

11. (Original) The method of Claim 7, wherein the mobile station comprises a first mobile station; and

further comprising:

receiving a third telephone call from a second mobile station directed at the first mobile station; and

routing the third telephone call through the wireless subsystem and the packet subsystem without routing the third telephone call through the telephone subsystem.

12. (Original) The method of Claim 7, wherein instructing the telephone subsystem to forward the second telephone call comprises instructing the telephone subsystem to forward the second telephone call to a gateway in the packet subsystem.

Attorney's Docket
01 P 7463 US

6

13. (Currently Amended) A system for call forwarding, comprising:

at least one computer processable medium; and

logic encoded on the at least one computer processable medium and operable to:

allow a telephone subsystem to direct a first telephone call to a telephonic device when a mobile station is not registered, the mobile station associated with the telephonic device;

determine that the mobile station has registered with a wireless subsystem, the wireless subsystem coupled to the telephone subsystem by a packet subsystem operable to transport packets; and

~~instruct~~ provide an instruction to the telephone subsystem in response to determining that the mobile station has registered with the wireless subsystem, the telephone system further operable to receive the instruction from the packet subsystem, and, in response to receiving the instruction, forward a second telephone call directed at the telephonic device to the packet subsystem, the forwarding triggered by the mobile station registering with the wireless subsystem, the packet subsystem further operable to receive the second telephone call from the telephone subsystem and to communicate the second telephone call to the wireless subsystem for delivery to the mobile station;

determine that the mobile station has deregistered with the wireless subsystem;

and

provide a second instruction to the telephone subsystem in response to determining that the mobile station has deregistered with the wireless subsystem, the second instruction instructing the telephone system to forward a telephone call directed at the mobile station to the telephonic device, the forwarding triggered by the mobile station deregistering with the wireless subsystem.

14. (Original) The system of Claim 13, wherein the logic is operable to instruct the telephone subsystem to forward the second telephone call by instructing the telephone subsystem to invoke at least one of a call forwarding feature, a call monitoring feature, a call deflection feature, and a remote call forwarding feature.

Attorney's Docket
01 P 7463 US

7

15. (Original) The system of Claim 14, wherein the logic is operable to instruct the telephone subsystem to invoke one or more of the features using at least one of a Computer Telephony Integration interface to the telephone subsystem, a signaling channel in a trunk interface to the telephone subsystem, a signaling channel in a line interface to the telephone subsystem, an administration port in the telephone subsystem, a teleworking server coupled to the telephone subsystem, and a telephone emulator coupled to the telephone subsystem.

16. (Canceled)

17. (Original) The system of Claim 13, wherein the mobile station comprises a first mobile station; and

wherein the logic is further operable to route a third telephone call from a second mobile station directed at the first mobile station through the wireless subsystem and the packet subsystem without routing the third telephone call through the telephone subsystem.

18. (Original) The system of Claim 13, wherein the logic is operable to instruct the telephone subsystem to forward the second telephone call to a gateway in the packet subsystem.

Attorney's Docket
01 P 7463 US

8

19. (Previously Presented) A system for call forwarding, comprising:

- a telephone subsystem operable to communicate with a telephonic device;
- a wireless subsystem operable to communicate with a mobile station, the wireless subsystem comprising at least one base station operable to communicate with the mobile station over a wireless interface, the mobile station associated with the telephonic device; and
- a packet subsystem coupled to the telephone subsystem and the wireless subsystem, the packet subsystem comprising:
 - a wireless adjunct internet platform operable to communicate with the base station;
 - a gateway operable to communicate with the wireless adjunct internet platform and the telephone subsystem;
 - a gatekeeper operable to:
 - determine that the mobile station has registered with the wireless subsystem; and
 - instruct the telephone subsystem in response to determining that the mobile station has registered with the wireless subsystem, the telephone system further operable to receive the instruction from the packet subsystem, and, in response to receiving the instruction, forward a first telephone call directed at the telephonic device to the gateway;
 - the gatekeeper further operable to instruct the telephone subsystem to forward the first telephone call by instructing the telephone subsystem to invoke at least one of a call forwarding feature, a call monitoring feature, a call deflection feature, and a remote call forwarding feature;
 - the gatekeeper operable to instruct the telephone subsystem to invoke one or more of the features using at least one of a Computer Telephony Integration interface to the telephone subsystem, a signaling channel in a trunk interface to the telephone subsystem, a signaling channel in a line interface to the telephone subsystem, an administration port in the telephone subsystem, a teleworking server coupled to the telephone subsystem, and a telephone emulator coupled to the telephone subsystem; and
 - the gatekeeper further operable to instruct the gateway to forward a second telephone call directed at the mobile station to the telephonic device associated with the mobile station after the mobile station deregisters.

Attorney's Docket
01 P 7463 US

9

20. (Currently Amended) A method for call forwarding, comprising:

allowing a telephone subsystem to direct a first telephone call to a telephonic device when a first mobile station is not registered, the first mobile station associated with the telephonic device;

determining that the first mobile station has registered with a wireless subsystem, the wireless subsystem coupled to the telephone subsystem by a packet subsystem operable to transport packets;

in response to determining that the first mobile station has registered with the wireless subsystem, instructing providing an instruction to the telephone subsystem to invoke at least one of a call forwarding feature, a call monitoring feature, a call deflection feature, and a remote call forwarding feature using at least one of a Computer Telephony Integration interface to the telephone subsystem, a signaling channel in a trunk interface to the telephone subsystem, a signaling channel in a line interface to the telephone subsystem, an administration port in the telephone subsystem, a teleworking server coupled to the telephone subsystem, and a telephone emulator coupled to the telephone subsystem, the telephone system further operable to receive the instruction from the packet subsystem, and, in response to receiving the instruction, forward a second telephone call directed at the telephonic device to a gateway in the packet subsystem, the forwarding triggered by the first mobile station registering with the wireless subsystem, the gateway operable to receive the second telephone call and to communicate the second telephone call to the wireless subsystem for delivery to the mobile station;

routing a third telephone call from a second mobile station directed at the first mobile station through the wireless subsystem and the packet subsystem without routing the third telephone call through the telephone subsystem;

determining that the first mobile station has deregistered with the wireless subsystem;
and

providing a second instruction to the telephone subsystem in response to determining that the first mobile station has deregistered with the wireless subsystem, the second instruction instructing the gateway to forward a fourth telephone call directed at the first mobile station to the telephonic device associated with the first mobile station after the first mobile station deregisters, the forwarding triggered by first the mobile station deregistering with the wireless subsystem.

Attorney's Docket
01 P 7463 US

10

21. (Currently Amended) A system for call forwarding, comprising:
at least one computer processable medium; and

logic encoded on the at least one computer processable medium and operable to:

allow a telephone subsystem to direct a first telephone call to a telephonic device when a first mobile station is not registered, the first mobile station associated with the telephonic device;

determine that the first mobile station has registered with a wireless subsystem, the wireless subsystem coupled to the telephone subsystem by a packet subsystem operable to transport packets;

in response to determining that the first mobile station has registered with the wireless subsystem, instruct provide an instruction the telephone subsystem to invoke at least one of a call forwarding feature, a call monitoring feature, a call deflection feature, and a remote call forwarding feature using at least one of a Computer Telephony Integration interface to the telephone subsystem, a signaling channel in a trunk interface to the telephone subsystem, a signaling channel in a line interface to the telephone subsystem, an administration port in the telephone subsystem, a teleworking server coupled to the telephone subsystem, and a telephone emulator coupled to the telephone subsystem, the telephone system further operable to receive the instruction from the packet subsystem, and, in response to receiving the instruction, forward a second telephone call directed at the telephonic device to a gateway in the packet subsystem, the forwarding triggered by the first mobile station registering with the wireless subsystem, the gateway operable to receive the second telephone call and to communicate the second telephone call to the wireless subsystem for delivery to the mobile station;

route a third telephone call from a second mobile station directed at the first mobile station through the wireless subsystem and the packet subsystem without routing the third telephone call through the telephone subsystem;

determine that the first mobile station has deregistered with the wireless subsystem; and

instruct provide a second instruction to the telephone subsystem in response to determining that the first mobile station has deregistered with the wireless subsystem, the second instruction instructing the gateway to forward a fourth telephone call directed at the first mobile station to the telephonic device associated with the first mobile station after the

Attorney's Docket
01 P 7463 US

11

first mobile station deregisters, the forwarding triggered by the first mobile station
deregistering with the wireless subsystem.

Attorney's Docket
01 P 7463 US

12

22. (Currently Amended) A system for call forwarding, comprising:
a telephone subsystem operable to communicate with a telephonic device;
a client in a packet-switched network associated with the telephonic device and operable to operate in an active state and a non-active state, the active state indicating that calls to the telephonic device should be forwarded to the client, the non-active state indicating that calls to the client should be forwarded to the telephonic device;
a gateway operable to communicate with the client and the telephone subsystem; and
a gatekeeper operable to:
register the client; and
~~instruct~~ provide an instruction to the telephone subsystem in response to registering the client;
the telephone subsystem further operable to:
receive the instruction from the packet subsystem; and
in response to receiving the instruction, forward a first telephone call directed at the telephonic device to the gateway, the forwarding triggered by the client registering with the wireless subsystem; and
the gatekeeper further operable to:
determine that the client has deregistered with the wireless subsystem; and
~~instruct~~ provide a second instruction to the telephone subsystem in response to determining that the client has deregistered with the wireless subsystem, the second instruction instructing the gateway to forward a second telephone call directed at the client to the telephone subsystem when the client is operating in the non-active state, the forwarding triggered by the client deregistering with the wireless subsystem.

23. (Original) The system of Claim 22, wherein the gatekeeper is operable to instruct the telephone subsystem to forward the first telephone call by instructing the telephone subsystem to invoke at least one of a call forwarding feature, a call monitoring feature, a call deflection feature, and a remote call forwarding feature.

Attorney's Docket
01 P 7463 US

13

24. (Original) The system of Claim 23, wherein the gatekeeper is operable to instruct the telephone subsystem to invoke one or more of the features using at least one of a Computer Telephony Integration interface to the telephone subsystem, a signaling channel in a trunk interface to the telephone subsystem, a signaling channel in a line interface to the telephone subsystem, an administration port in the telephone subsystem, a teleworking server coupled to the telephone subsystem, and a telephone emulator coupled to the telephone subsystem.

25. (Original) The system of Claim 22, wherein:
the client comprises a gateway to a wireless subsystem, the wireless subsystem operable to communicate with a mobile station;
the client operates in the active state when the mobile station is registered; and
the client operates in the non-active state when the mobile station is unregistered.

26. (Original) The system of Claim 22, wherein the client comprises at least one of a voice over packet telephone, a computing device, and a gateway operable to communicate with another communication system.

Attorney's Docket
01 P 7463 US

14

27. (Currently Amended) A method for call forwarding, comprising:

determining whether a client in a packet-switched network and associated with a telephonic device is operating in an active state or a non-active state, the active state indicating that calls to the telephonic device should be forwarded to the client, the non-active state indicating the calls to the client should be forwarded to the telephonic device, the telephonic device operable to communicate with a telephone subsystem;

registering the client;

~~instructing~~ providing an instruction to the telephone subsystem in response to registering the client, the telephone subsystem further operable to receive the instruction from the packet subsystem, and in response to receiving the instruction, forward a first telephone call directed at the telephonic device to a gateway coupled to the client, the forwarding triggered by registering the client, the gateway operable to receive the first telephone call from the telephone subsystem and to communicate the first telephone call to the client;

deregistering the client; and

providing a second instruction to the telephone subsystem in response to deregistering the client, the second instruction instructing the gateway to forward a second telephone call directed at the client to the telephone subsystem if the client is in the non-active state, the forwarding triggered by deregistering the client.

28. (Original) The method of Claim 27, wherein:

the client comprises a gateway to a wireless subsystem, the wireless subsystem operable to communicate with a mobile station;

the client operates in the active state when the mobile station is registered; and

the client operates in the non-active state when the mobile station is unregistered.

29. (Original) The method of Claim 27, wherein the client comprises at least one of a voice over packet telephone, a computing device, and a gateway operable to communicate with another communication system.

Attorney's Docket
01 P 7463 US

15

30. (Original) The method of Claim 27, wherein instructing the telephone subsystem to forward the first telephone call comprises instructing the telephone subsystem to invoke at least one of a call forwarding feature, a call monitoring feature, a call deflection feature, and a remote call forwarding feature.

31. (Original) The method of Claim 30, wherein instructing the telephone subsystem to invoke at least one of the features comprises instructing the telephone subsystem using at least one of a Computer Telephony Integration interface to the telephone subsystem, a signaling channel in a trunk interface to the telephone subsystem, a signaling channel in a line interface to the telephone subsystem, an administration port in the telephone subsystem, a teleworking server coupled to the telephone subsystem, and a telephone emulator coupled to the telephone subsystem.

Attorney's Docket
01 P 7463 US

16

32. (Currently Amended) A system for call forwarding, comprising:

at least one computer processable medium; and

logic encoded on the at least one computer processable medium and operable to:

determine whether a client in a packet-switched network and associated with a telephonic device is operating in an active state and a non-active state, the active state indicating that calls to the telephonic device should be forwarded to the client, the non-active state indicating the calls to the client should be forwarded to the telephonic device, the telephonic device operable to communicate with a telephone subsystem;

register the client;

~~instruct~~ provide an instruction to the telephone subsystem in response to registering the client, the telephone subsystem further operable to receive the instruction from the packet subsystem; and in response to receiving the instruction, forward a first telephone call directed at the telephonic device to a gateway coupled to the client, the forwarding triggered by registering the client, the gateway operable to receive the first telephone call from the telephone subsystem and to communicate the first telephone call to the client;

deregister the client; and

~~instruct~~ provide a second instruction to the telephone subsystem in response to deregistering the client, the second instruction instructing the gateway to forward a second telephone call directed at the client to the telephone subsystem if the client is in the non-active state, the forwarding triggered by deregistering the client.

33. (Original) The system of Claim 32, wherein:

the client comprises a gateway to a wireless subsystem, the wireless subsystem operable to communicate with a mobile station;

the client operates in the active state when the mobile station is registered; and

the client operates in the non-active state when the mobile station is unregistered.

34. (Original) The system of Claim 32, wherein the client comprises at least one of a voice over packet telephone, a computing device, and a gateway operable to communicate with another communication system.

Attorney's Docket
01 P 7463 US

17

35. (Original) The system of Claim 32, wherein the logic is operable to instruct the telephone subsystem to forward the first telephone call by instructing the telephone subsystem to invoke at least one of a call forwarding feature, a call monitoring feature, a call deflection feature, and a remote call forwarding feature.

36. (Original) The system of Claim 35, wherein the logic is operable to instruct the telephone subsystem to invoke one or more of the features using at least one of a Computer Telephony Integration interface to the telephone subsystem, a signaling channel in a trunk interface to the telephone subsystem, a signaling channel in a line interface to the telephone subsystem, an administration port in the telephone subsystem, a teleworking server coupled to the telephone subsystem, and a telephone emulator coupled to the telephone subsystem.